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## PRELIMINARY LIST OF HEPATICS COLLECTED IN WORCESTER, MASSACHUSETTS.

HELEN E. GREENWOOD.

The Hepatics listed below have been collected by the writer within the limits of Worcester, Massachusetts, at various times within the last year and a half. Doubtless other species will be found in addition to these.

Certain kinds are found here in abundance, but conditions are not favorable for a great variety of hepatics. There is a great deal of low, wet, swampy land in the outlying territory of the city. The hills of Worcester are full of springs, so that in many localities the roadsides remain very moist throughout the whole season, thus affording just the right conditions for *Blasia*, *Anthoceros*, *Pellia* and *Riccia*.

The acreage of woodland with the accompanying brooks is fast disappearing within the city limits so that favorable situations for such forms as *Jamesoniella*, *Lepidozia*, *Lophozia*, *Nardia*, etc. are rapidly growing less.

Thanks are due to Miss Haynes for her determination and verification of species and for her encouraging words.

1. *Anthoceros laevis* L.

Damp soil by brook side—springy roadsides. Fairly common.

2. *Anthoceros punctatus* L.

Moist roadsides—moist soil in freshly cut banks. Fairly common.

3. *Bazzania trilobata* (L.) S. F. Gray

With mosses in swampy woods on earth. Not common.

4. *Blasia pusilla* L.

Moist roadsides on earth. Almost always with *Anthoceros laevis*. Common.

5. *Calypogeia Trichomanis* (L.) Corda

On soil in woods and swamps, and freshly cut banks of roadsides. Common.

6. *Cephalozia bicuspidata* (L.) Dumort.

Damp soil in woods covering the ground with a thick mat. Common.

7. *Cephalozia connivens* (Dicks.) Lindb.

Wet swampy soil. Rare.

8. *Cephalozia lunulaefolia* Dumort.

Wet rotten logs and swampy ground. Fairly common.

9. *Cephalozia curvifolia* (Dicks.) Dumort.

On rotten logs.

10. *Cephalozia serriiflora* Lindb.  
Wet swampy soil, rotten logs. Common.
11. *Chiloscyphus pallescens* Ehrh. Dumort.  
On rocks in bed of brook.
12. *Chiloscyphus polyanthus* (L.) Corda  
On wet swampy soil with mosses. On rocks in bed of brook—  
partly submerged.
13. *Chiloscyphus polyanthus* var. *rivularis* (Schrad.) Nees  
On rocks in the bed of a brook, submerged.
14. *Conocephalum conicum* (L.) Dumort.  
On shaded banks by roadsides forming a thick mat over soil or rocks,  
along brooks.
15. *Frullania Eboracensis* Gottsche  
Bark of living trees, white maple, rock maple, walnut, chestnut,  
arbor vitae, white birch. Very common.
16. *Geocalyx graveolens* (Schrad.) Nees  
Damp soil near edge of brooks, in swamps.
17. *Jamesoniella autumnalis* (DC.) Steph.  
With mosses forming a thick mat or layer on damp soil or on rocks.
18. *Lioclaena lanceolata* Nees  
Damp shaded banks. Rare.
19. *Lepidozia reptans* (L.) Dumort.  
Shaded banks and damp soil in woods with mosses.
20. *Lepidozia sylvatica* Evans  
On damp soil and rocks.
21. *Lophocolea heterophylla* (Schrad.) Dumort.  
On old stumps, freshly cut soil by roadsides, shaded banks, damp  
soil in woods. Very common.
22. *Lophozia incisa* (Schrad.) Dumort.  
On damp shaded banks growing with mosses.
23. *Marchantia polymorpha* L.  
Damp garden soil, bank wall in city street.
24. *Nardia crenulata* (Sm.) Lindb.  
Roadside banks, shaded woods, damp soil, damp springy roadsides.
25. *Notothylas orbicularis* (Schwein.) Sull. Moist soil.
26. *Pallavicinia Lyellii* (Hook.) S. F. Gray  
Wet swampy soil forming thick mats. Quite common.

27. *Pellia epiphylla* (L.) Corda  
Moist soil along banks of brooks, sometimes submerged, sometimes several feet from the water. Springy roadsides. Very common.
28. *Plagiochila asplenoides* (L.) Dumort.  
Very wet soil, rocks in bed of brook, not submerged.
29. *Porella pinnata* L.  
On dead wood in brook, submerged.
30. *Porella platyphylla* (L.) Lindb.  
Bark of living trees, rocks, damp shaded soil. Very common.
31. *Ptilidium pulcherrimum* (Web.) Hampe  
Shaded rocks, base of living trees, damp shaded soil.
32. *Radula complanata* (L.) Dumort.  
Trunks of living trees, rocks, soil.
33. *Riccia fluitans* L.  
On damp soil. Borders of well-trodden pathways if the soil is damp. Edge of ponds from which the water has receded. Springy roadsides, Quite common.
34. *Ricciocarpus natans* (L.) Corda  
Floating on water in ponds. Only found once.
35. *Riccardia multifida* (L.) S. F. Gray  
Wet swampy ground with mosses.
36. *Scapania nemorosa* (L.) Dumort.  
Shaded banks.

Worcester, Mass.

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#### A CORRECTION BY DR. I. HAGEN.

In the September BRYOLOGIST, page 82, towards the end of the article after the words, Mr. Stuntz quotes: please read as follows:

*Hypnum ornithopodioides* Scop. Fl. Carn. p. 104 (1760).

*Hypnum complanatum* L. Sp. Pl. p. 1588 (1763).

Instead of

*Hypnum complanatum* L. Sp. Pl., ed. 1, p. 1123 (1753).

*Hypnum fronde subpinnata ramosa, foliis pellucidis acutis planis* Scop. Fl. Carn., ed. 1, p. 150 (1760).

*Hypnum ornithopodioides* (nec. L. nec. Huds.) Scop. Fl. Carn., ed. 2, 11, p. 329 (1772). (The last two on the authority of Bridel.)

Dr. Hagen wishes to bring out that there was opposition between the first two and three following names, the words "instead of" by occupying a separate line brings this contrast out.—EDITOR